

CLAIMS

- 1 1. A host site comprising:
2 an application tier that generates resource utilization data; and
3 a client-response tier that performs admission control using said
4 resource utilization data.

- 1 2. A host site as recited in Claim 1 wherein:
2 said client-response tier has
 - 3 an admissions control gateway for receiving client requests
4 from client computers;
 - 5 a deferral manager for making determinations concerning
6 which of said client requests should be admitted for
7 processing at least in part as a function of application-
8 resource-utilization data;
 - 9 a client-request processor for processing client requests
10 admitted for processing, said client-request processor
11 generating application requests in response to at least some
12 of said client requests, said client-request processor
13 generating client responses in response to application
14 responses received in response to said application requests;
15 and
 - 16 said application tier has
 - 17 at least one application-tier server not in said client-
18 response tier,
 - 19 an application processing function running on said server
20 for responding to said application requests with said
21 application responses, and
 - 22 a resource monitor for generating said application-
23 resource-utilization data by monitoring utilization parameters
24 on said server, said resource monitor communicating said
25 resource-utilization to said deferral manager.

1 3. A system as recited in Claim 2 wherein said client-request
2 processor transmits said client responses to said client computers
3 in accordance with an http protocol.

1 4. A system as recited in Claim 2 wherein said client-response
2 tier includes at least one client-response-tier server on which said
3 deferral manager and said client-request processor run, said client-
4 response-tier also having a client-response-tier resource monitor for
5 generating client-response-tier resource utilization data as a
6 function of parameters associated with said client-response-tier
7 server, said client-response-tier resource monitor providing said
8 client-response-tier resource utilization data to said deferral
9 manager, said deferral manager making said determinations in part
10 as a function of said client-response-tier resource utilization data.

1 5. A system as recited in Claim 4 wherein said deferral manager
2 also generates requests to expand the processing capacity on said
3 client-response tier.

1 6. A system as recited in Claim 2 wherein said deferral manager
2 generates requests to expand the processing capacity on said
3 application tier.

1 7. A system as recited in Claim 6 wherein said processing
2 capacity is expanded by one or more of the following: increasing the
3 number of servers, increasing the number of processors, increasing
4 CPU entitlement.

1 8. A network hosting method for a host site having an
2 application tier and a client-response tier, said application tier
3 having at least one server not included in said client-response tier,
4 said method comprising a client-response process and a resource-
5 monitoring process,
6 said resource-monitoring process involving
7 a1) monitoring resource utilization at said application tier,
8 a2) generating resource-utilization data at said application
9 tier and transmitting said resource-utilization data to said
10 client-response tier, and
11 said request processing involving
12 b1) receiving at said client-response-tier a client request
13 from a client via a network,
14 b2) making an admissions determination at said client-
15 response tier whether said client request should be admitted
16 immediately or deferred, said determination being made at
17 least in part as a function of said resource-utilization data,
18 b3) when said client request is admitted, sending an
19 application request from said client-response tier to said
20 application tier,
21 b4) generating an application response at said application
22 tier and transmitting said application response to said client-
23 response tier, and
24 b5) generating a client response as a function of said
25 application response and transmitting said client response to
26 said client via said network.

1 9. A method as recited in Claim 8 wherein at step b2) in the
2 event a determination is made to defer admission of said client
3 request, a notification is sent to said client to that effect via said
4 network.

1 10. A method as recited in Claim 8 wherein at step b2, in the
2 event a determination is made to defer admission, a request is
3 generated to increase the processing capacity on said application
4 tier.

1 11. A method as recited in Claim 8 wherein at step b2) said
2 determination is also a function of resource-utilization data
3 generated at said client-response tier.

1 12. A host site method comprising:
2 generating resource-utilization data on an application tier; and
3 using said data on a client-response tier to determine admission-
4 control policy.